



## PATENT ABSTRACTS OF JAPAN

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## (54) CYLINDER HEAD

## (57) Abstract:

**PURPOSE:** To provide a cylinder head having a valve seat of high hardness and high strength without any defects such as holes between the hard padded layer and base material so as to be desirable in adhesion at the padded interface and also excellent in cooling performance.

**CONSTITUTION:** This cylinder head 1 is provided with a valve seat 9 formed by forming a hard padded layer 7 at a valve seat corresponding part 2 by padding using laser beams and finishing it into valve seat shape. In this case, an R-shape recessed part 4 provided previously with a corner R part by spot facing is formed at the cylinder head base material surface to be padded,

and the hard padded layer 7 is formed at the R-shape recessed part 4 and finished into valve seat shape to form the valve seat 9.

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